

DIGITAL SUBSCRIBER LINE COMMUNICATING SYSTEM
AND A TRANSCEIVER IN THE SYSTEM

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ABSTRACT OF THE DISCLOSURE

10 A digital subscriber line communicating system for
communicating between a transmitting side and a receiving
side through a communication line, comprising a
hyperframe counter for periodically counting a
predetermined number of continuous transmitting data
symbols constituting a hyperframe synchronized with a
15 timing signal, and a decoder for discriminating, based on
the count value of the hyperframe counter, whether a
transmitting data symbol belongs to a FEXT_R or a NEXT_R.

20 A sequencer is provided for initializing the status
during an initialization period before starting usual
communication. The initialization period includes an
activation and acknowledgement sequence, a transceiver
training sequence, a channel analysis sequence, and an
exchange sequence. According to a single bitmap mode,
the initialization is carried out by transmitting
25 modulated symbols through only inside of said sliding
window. According to a dual bitmap mode, the
initialization except for an S/N measuring sequence in
the channel analysis sequence is carried out by
transmitting modulated symbols through only inside of
30 said sliding window, and the S/N measuring sequence is
carried out by transmitting modulated symbols through
both inside and outside of said sliding window.